DB Tarımsal Enerji	**GLİSERİN YASAL MEVZUAT LİMİTLERİ VE ÜRÜN SPEKTİ (NATIONAL LEGISLATION LIMITS AND DB PRODUCT SPECIFICATION)**	**Döküman Kodu:** GG-US-001 **Yayın Tarihi:03.03.**2016 **Rev.tarihi:** 00 **Revizyon.No** :00 **Sayfa No** : 1 / 1

Technical Data Sheet (TDS) Rafined Glycerine (Vegetable Base)

Product name **REFINED GLYCERINE**
Shelf Life:2 years after production
Storage Conditions: Keep away from direct sun light & Store closed in a ventilated area.

NATIONAL LEGISLATION LIMITS AND DB PRODUCT SPECIFICATION

SPECIFICATION	UNIT	ACS Grade (American Chemical Society)	USP Grade	EP Grade	TSE 829 Grade	E 422 Food Grade	DB SPECT
Appearance	-	Clear, Colorless	Transparent	Clear, Colorless	Transparent	Clear, Colorless	Clear, Colorless
Odour	-	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
Glycerine Content (Assay)	%	min.99,5	99-101	98-101	min 98,0	min 98,0	min.99,5
Specific Gravity (25C)	gr/cm3	-	min 1,249	-	min 1,2600	min 1,2570	min. 1,2600
Color	APHA/LAVIBOND	10 max Apha	-	-	0,2 red-1 yellow LAVIBOND	-	10 max Apha-0,2 red-1 yellow LAVIBOND
Impurity A-diethylene Glycol (IMPURITY A AND RELATED SUBSTANCES)	%	-	-	0,1 max	-	-	0,1 max
Impurities with RT<Glycerol (IMPURITY A AND RELATED SUBSTANCES)	%	-	-	0,1 max	-	-	0,1 max
Impurities with RT>Glycerol (IMPURITY A AND RELATED SUBSTANCES)	%	-	-	0,5 max	-	-	0,5 max
Indivual Impurities (ORGANIC IMPURITIES RELATED COMPOUNDS)	%	-	0,1 max	-	-	-	0,1 max
Total Impurities	%	-	1,0 max	-	-	-	1 max
Water Content (Moisture)	%	0,5 max	5 max	2 max	-	5 max	0,5 max
Residue on Ignition	%	0,005 max	0,01 max	-	-	-	0,005 max
Sulphate Ash	%		-	0,01 max	0,01 max	0,01 max	0,01 max
Chloride Content	ppm	-	10 max	10 max	17 max	-	10 max
Sulphate Content (as SO4)	%-ppm	0,001 % max:10 ppm max	20 ppm max	-	-	-	20 ppm max
Heavy Metals (as Pb)	ppm(mg/kg)	2 max	5 max	5 max	-	5max	5 max
Lead	ppm(mg/kg)			-	-	2 max	2 max
Arsenic	ppm(mg/kg)		-	-	2 max	3 max	3 max
Mercury	ppm(mg/kg)			-	-	1 max	1 max
Cadmium	ppm(mg/kg)			-	-	1 max	1 max
Chlorinated Compounds	%-ppm	0,03 % max:300 ppm max	30 ppm max	-	-	30 ppm max	30 ppm max
Halogenetad Compounds	ppm(mg/kg)	-	-	35 ppm max	-	-	35 ppm max
Fatty Acids & Esters	%	0,05 max	-	-	0,02 max	0,1 max	0,02 max
Diethylene Glycol	%	0,1 max	-	-	-	-	0,1 max
Ethylene Glyceol	%	0,1 max	-	-	-	-	0,1 max
Identification A (Refractive Index 20 °C)	n D 20	-	-	1.470 - 1.475	-	1.471 - 1.474	1,471-1474
Aldehydes (as CH2O)	ppm	-	-	10 max	-	-	10 max
Esters	ml 0.1 M HCl	-	-	min 8	-	-	min 8
Sugar	-	-	-	Suitable	Suitable	-	Suitable
Butanetriols	%	-	-	-	-	0,2 max	0,2 max
3-Monochloropropane-1,2-diol (3-MCPD)	mg/kg	-	-	-	-	0,1 max	0,1 max
Acrolein Formation	-	Suitable	-	-	-	Suitable	Suitable
Acrolein, Glycose, Ammonia Compounds	-	Suitable	-	-	-	Suitable	Suitable
Product Form							Liquid
Packaging							Bulk, Drum (250kg), IBC (1.250kg), 20 MT IsoTank & 20 MT FlexiBag

*This product meets the Requirements of The latest edition of the European pharmacopoeia.

*This product meets the Requirements of Turkish Food Codex Purity Criteria.

* FSSC 22000 & Helal & OU Kosher

DB TARIMSAL ENERJİ SANAYİ ve TİCARET A.Ş.
Philsa Caddesi No:30/2 PK: 35860 Torbalı - İZMİR . **Tel:** 0 (232) 853 17 75 . **Faks :** 0 (232) 853 10 81
e-mail : info@dbtarimsalenerji.com.tr **Web: http://www.dbtarimsalenerji.com.tr**

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